

IN THE CLAIMS

Please amend the claims as follows:

Claim 1 (Canceled).

Claim 2 (Currently Amended): A method of allocating radio resources, in a base station, to the base station and a mobile station, comprising the steps of:

obtaining a ratio between traffic of an uplink for transmission from the mobile station to the base station and traffic of a downlink for transmission from the base station to the mobile station such that the ratio reflects empirical data;

allocating the radio resources to the uplink and downlink according to the ratio obtained in the obtaining step; and ~~The method as claimed in claim 1, further comprising a step of~~

dividing time into a plurality of time periods corresponding to at least one of days of a week and hours of a day, wherein said step of obtaining a ratio obtains the ratio with respect to each one of the time periods by deriving the ratio from traffic of the uplink of a corresponding time period and traffic of the downlink of the corresponding time period.

Claim 3 (Original): The method as claimed in claim 2, wherein said step of obtaining a ratio obtains the ratio by averaging a ratio between traffic of the uplink and traffic of the downlink over a first predetermined period with respect to each one of the time periods.

Claim 4 (Original): The method as claimed in claim 2, further comprising the steps of:

obtaining an instantaneous ratio between traffic of the uplink and traffic of the downlink for a second predetermined period immediately preceding a present instant where the second predetermined period is shorter than the first predetermined period; and

obtaining a weighted average of the ratio averaged over the first predetermined period and the instantaneous ratio by weighting the ratios with respective weighting factors, wherein said step of allocating the radio resources allocates the radio resources to the uplink and the downlink according to the weighted average.

Claim 5 (Currently Amended): The method as claimed in claim [[1]] 2, further comprising a step of transmitting, to the mobile station, information about the radio resources with respect to at least one of the uplink and the downlink.

Claim 6 (Currently Amended): The method as claimed in claim [[1]] 2, further comprising a step of allocating transmission power according to communication quality required for the uplink and the downlink.

Claim 7 (Canceled).

Claim 8 (Currently Amended): A base station apparatus which communicates with a mobile station apparatus, comprising:

a computation unit which obtains a ratio between traffic of an uplink for transmission from the mobile station to the base station and traffic of a downlink for transmission from the base station to the mobile station such that the ratio reflects empirical data; and

an allocation unit which allocates the radio resources to the uplink and the downlink according to the ratio obtained by the computation unit ~~The base station apparatus as claimed~~

~~in claim 7~~, wherein time is divided into a plurality of time periods corresponding to at least one of days of a week and hours of a day, and said computation unit obtains the ratio with respect to each one of the time periods by deriving the ratio from traffic of the uplink of a corresponding time period and traffic of the downlink of the corresponding time period.

Claim 9 (Currently Amended): The base station apparatus method as claimed in claim 8, wherein said computation unit further obtains the ratio by averaging a ratio between traffic of the uplink and traffic of the downlink over a first predetermined period with respect to each one of the time periods.

Claim 10 (Currently Amended): The base station apparatus method as claimed in claim 8, wherein said computation unit further obtains an instantaneous ratio between traffic of the uplink and traffic of the downlink for a second predetermined period immediately preceding a present instant where the second predetermined period is shorter than the first predetermined period, and obtains a weighted average of the ratio averaged over the first predetermined period and the instantaneous ratio by weighting the ratios with respective weighting factors, and wherein said allocation unit allocates the radio resources to the uplink and the downlink according to the weighted average.

Claim 11 (Currently Amended): The base station apparatus method as claimed in claim ~~[[7]]~~ 8, further comprising a reporting control unit which transmits, to the mobile station, information about the radio resources with respect to at least one of the uplink and the downlink.

Claim 12 (Currently Amended): The base station apparatus method as claimed in claim [[7]] 8, wherein the allocation unit allocates transmission power according to communication quality required for the uplink and the downlink.